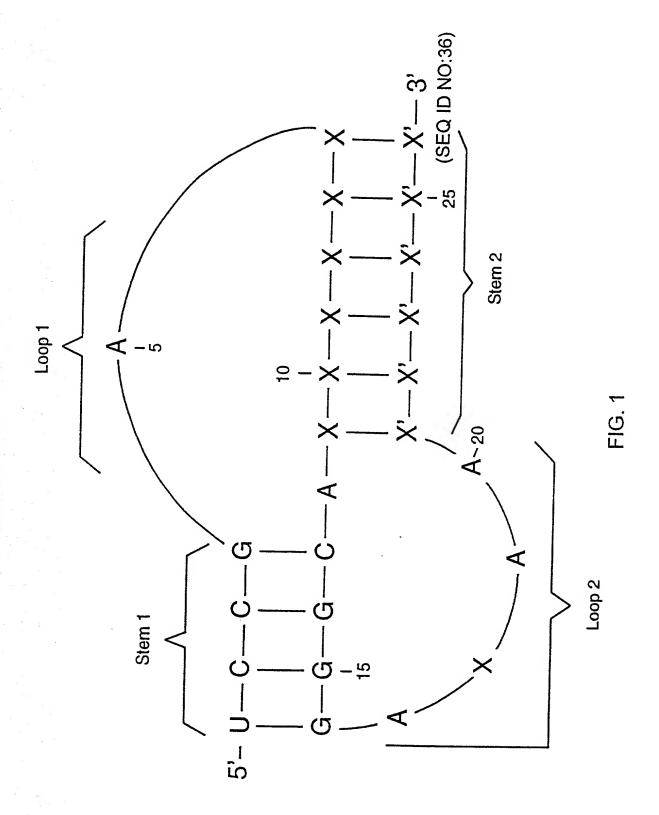
#### Attorney Docket No. NEX 05/DC-CON2 Sheet 1/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al Express Mail Label No. EV 019561696 US



#### Attorney Docket No. NEX 05/DC-CON2 Sheet 2/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

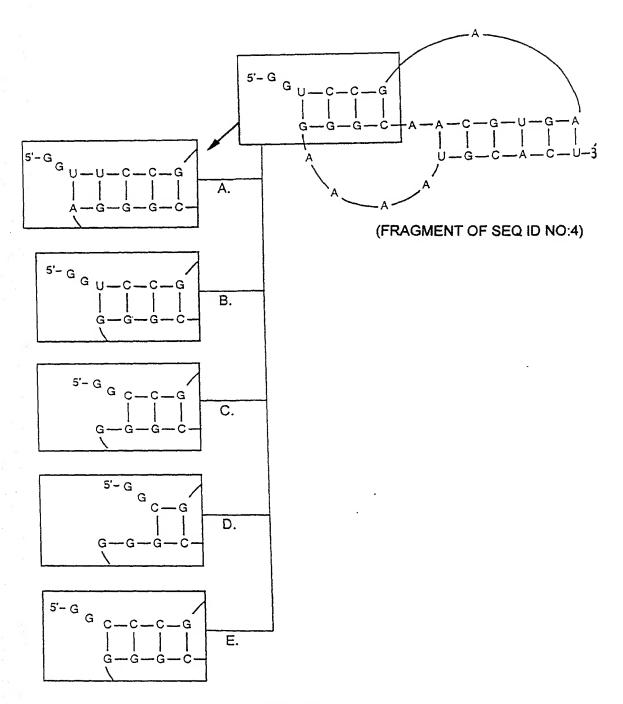
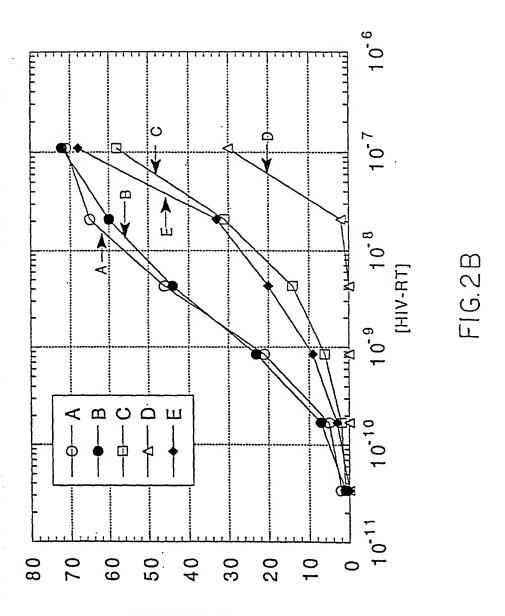


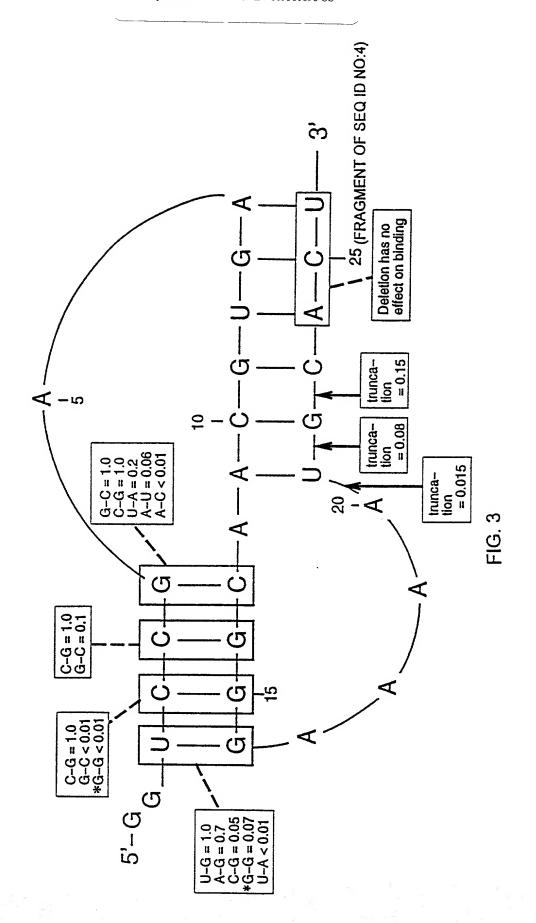
FIG. 2A

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Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US

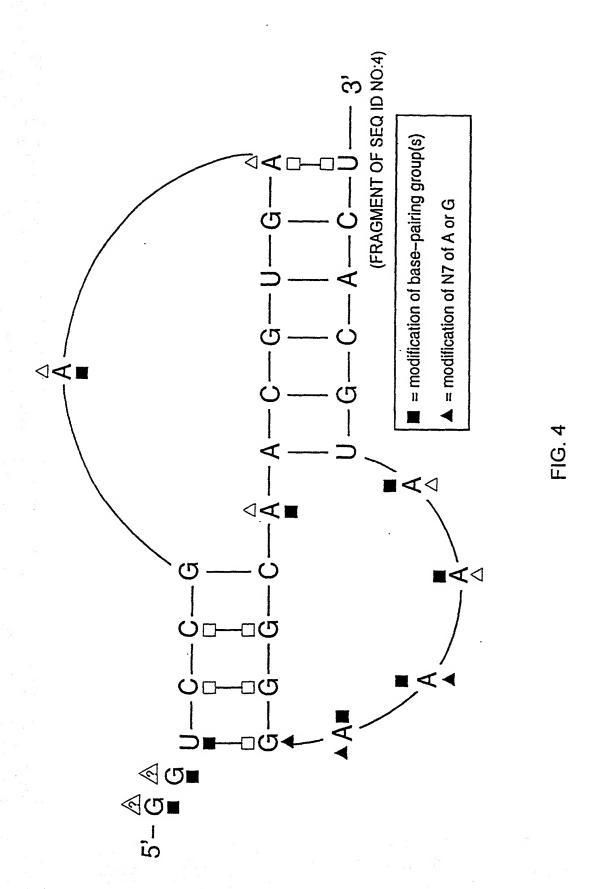


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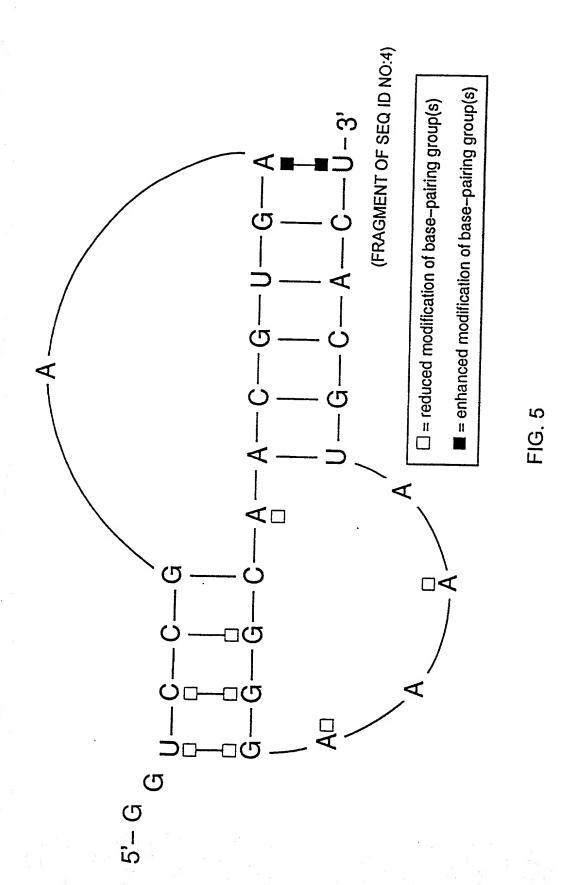
Attorney Docket No. NEX 05/DC-CON2 Sheet 4/32
Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US



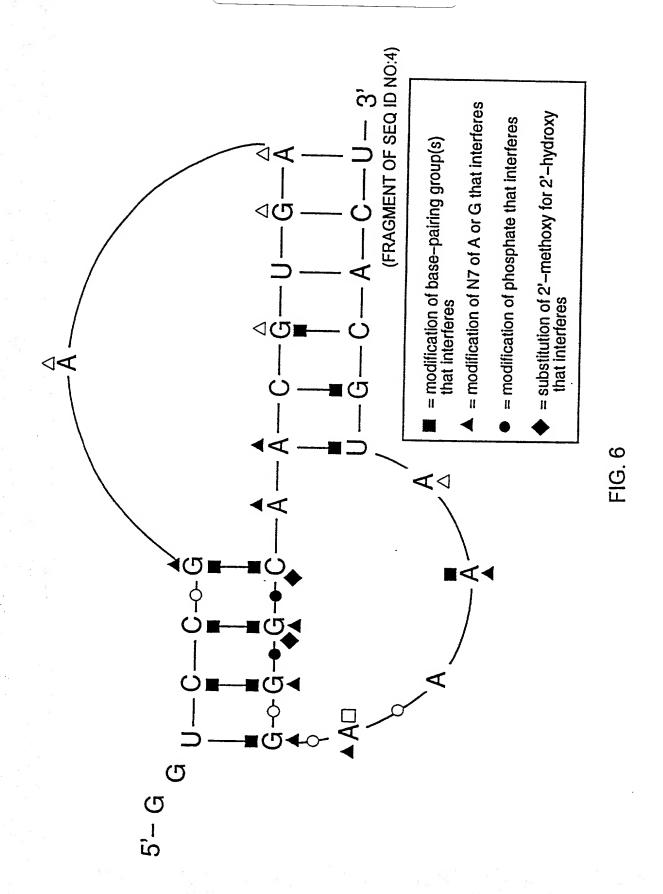
Attorney Docket No. NEX 05/DC-CON2 Sheet 5/32
Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US

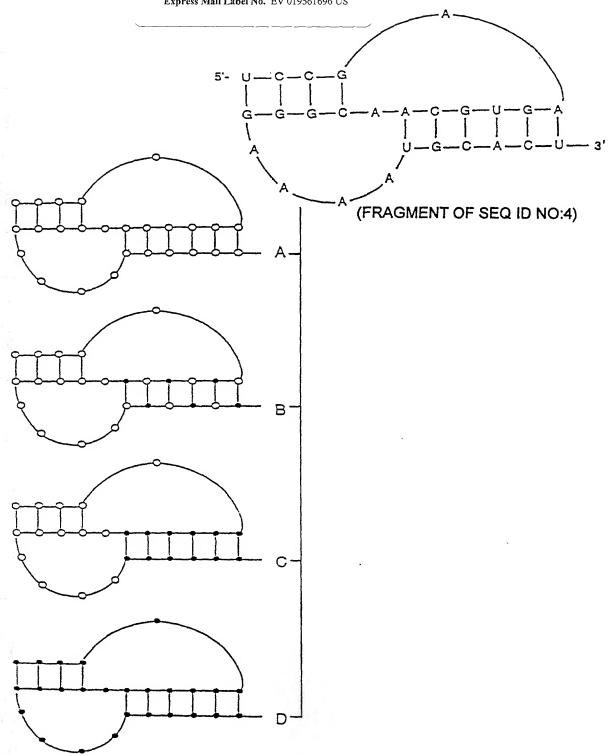


Attorney Docket No. NEX 05/DC-CON2 Sheet 6/32
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NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US



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Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US

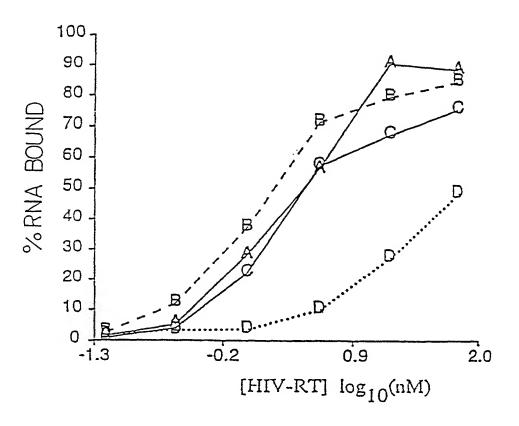
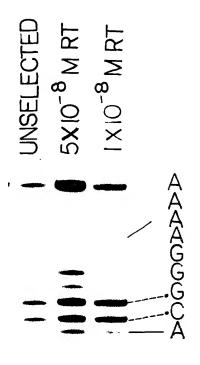


FIG.7B

#### Attorney Docket No. NEX 05/DC-CON2 Sheet 10/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US



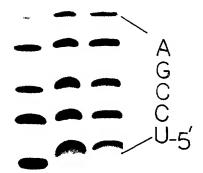
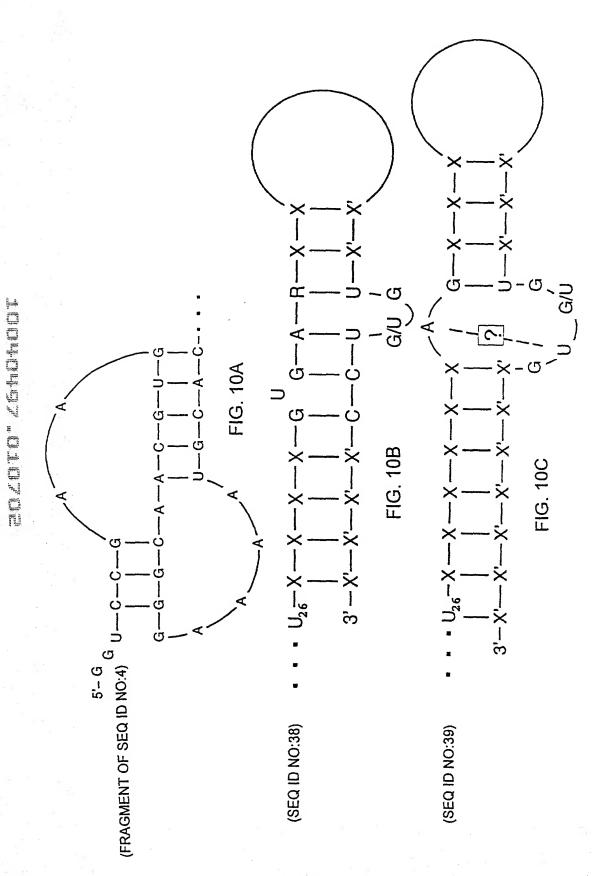


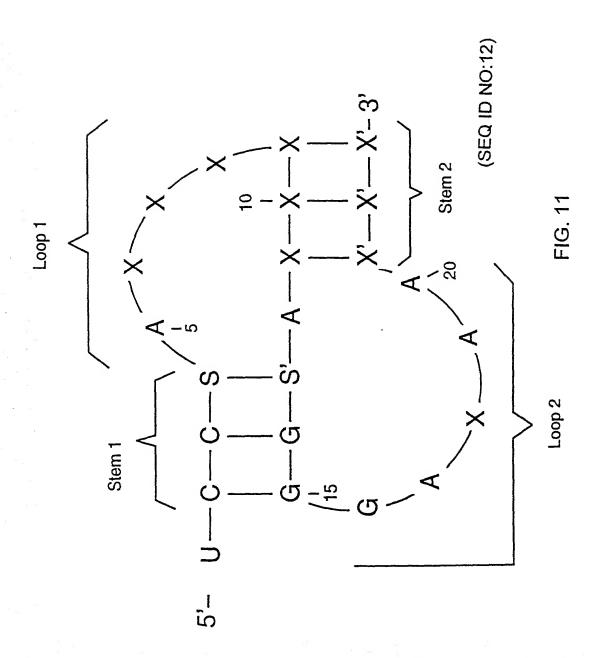
FIG.8

#### Attorney Docket No. NEX 05/DC-CON2 Sheet 11/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al Express Mail Label No. EV 019561696 US

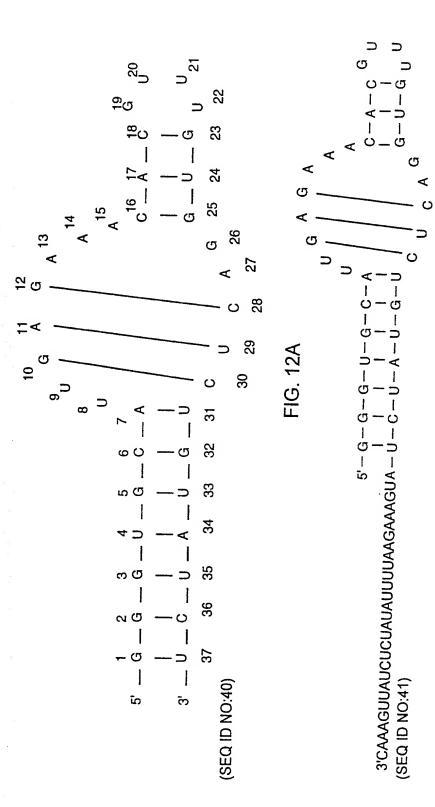
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	31	uCAGUGGAGAUUAAGCCUCGCUAGGGGCCGcuau	34



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NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US



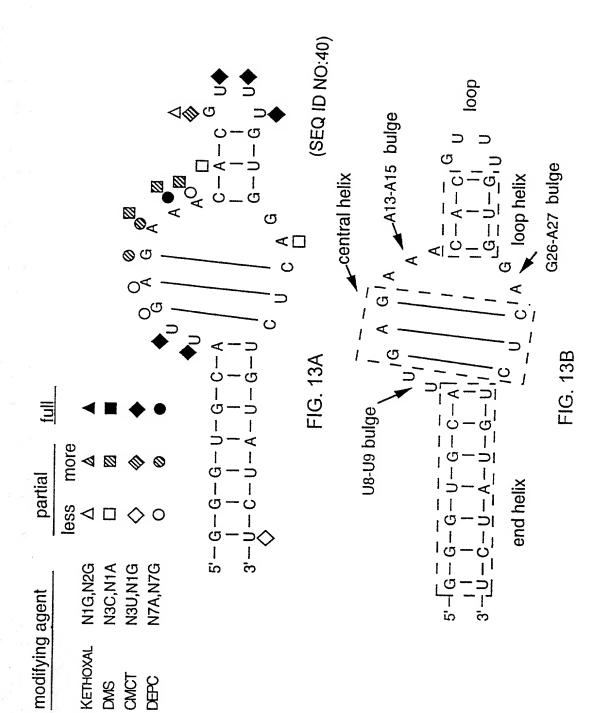
#### Attorney Docket No. NEX 05/DC-CON2 Sheet 14/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US



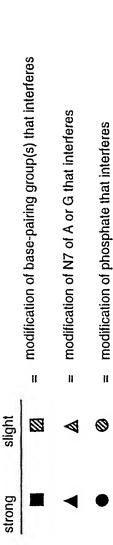
(SEQ ID NO:42) 5' GTTTCAATAGAGATATAAAATTC 3'

FIG. 12C

#### Attorney Docket No. NEX 05/DC-CON2 Sheet 15/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al Express Mail Label No. EV 019561696 US



#### Attorney Docket No. NEX 05/DC-CON2 Sheet 16/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US



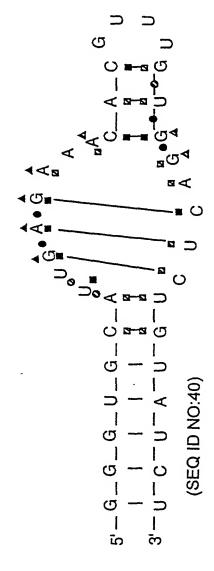


FIG. 12

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Title: METHODS OF PRODUCING
NUCLEIC ACID LIGANDS
Inventor: Gold et al.
Express Mail Label No. EV 019561696 US

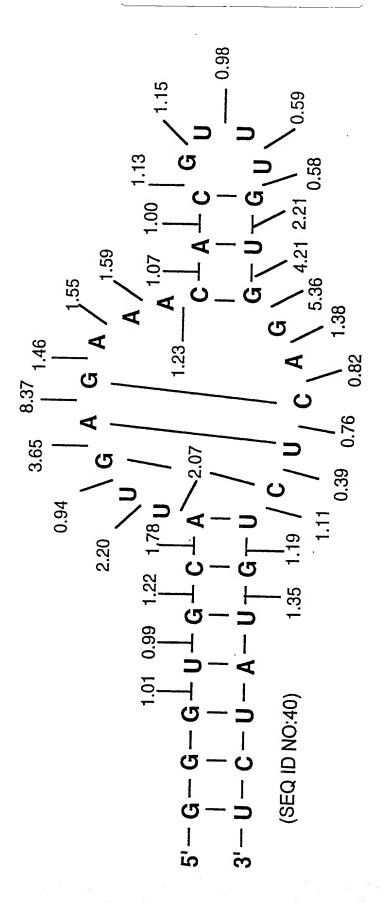
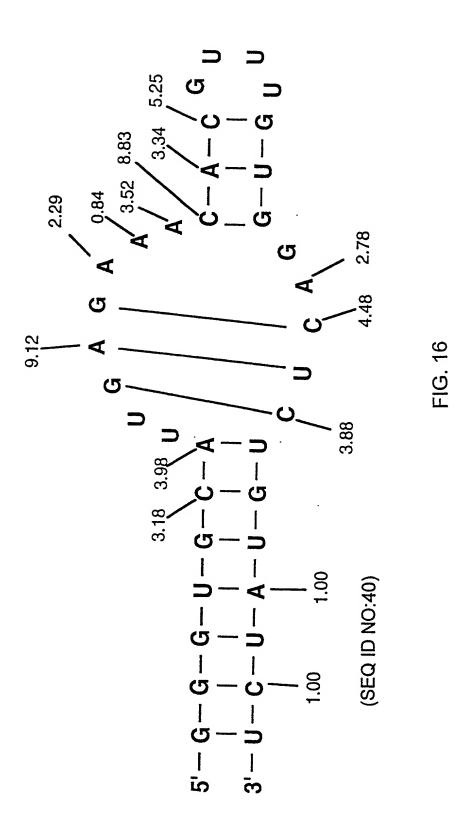
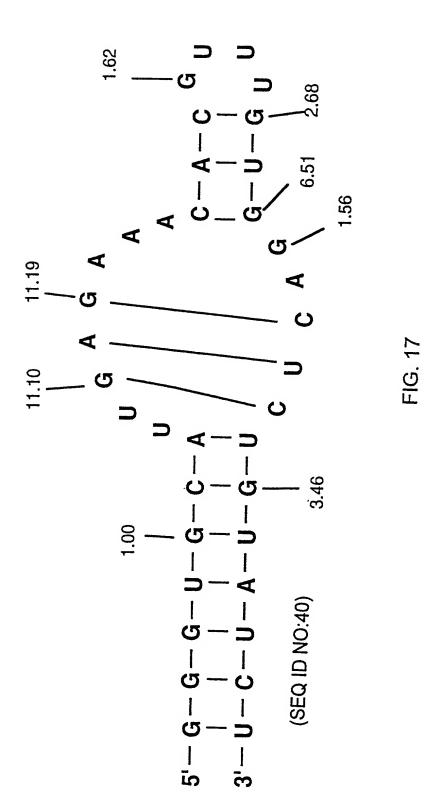


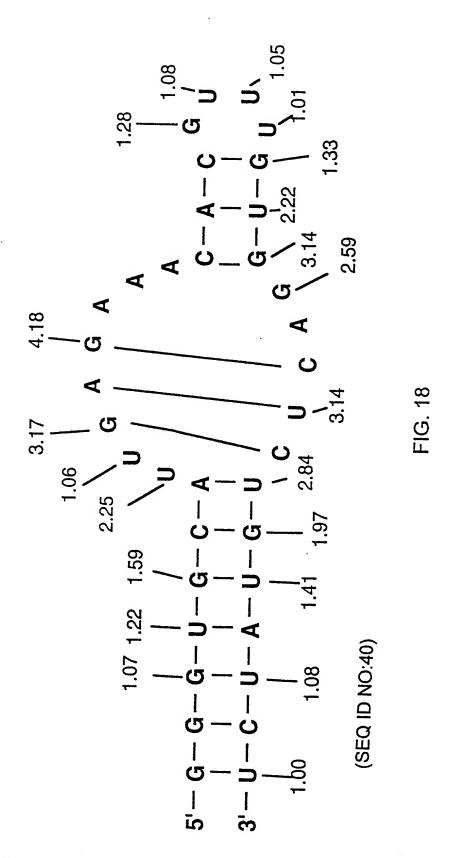
FIG. 18

#### Attorney Docket No. NEX 05/DC-CON2 Sheet 18/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

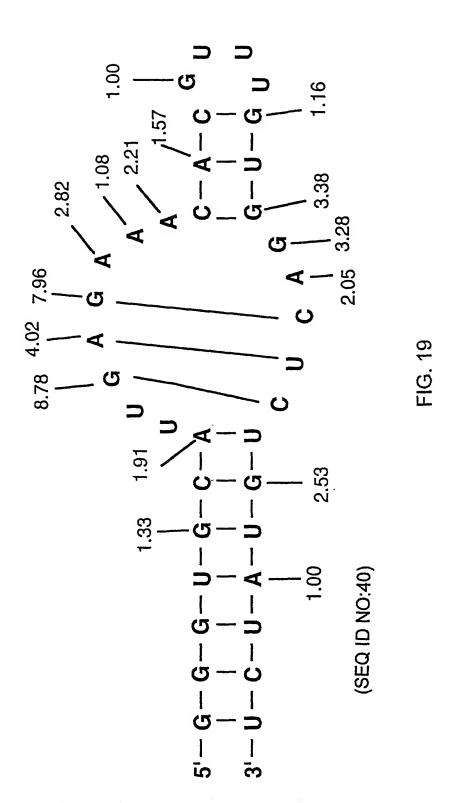




#### Attorney Docket No. NEX 05/DC-CON2 Sheet 20/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US



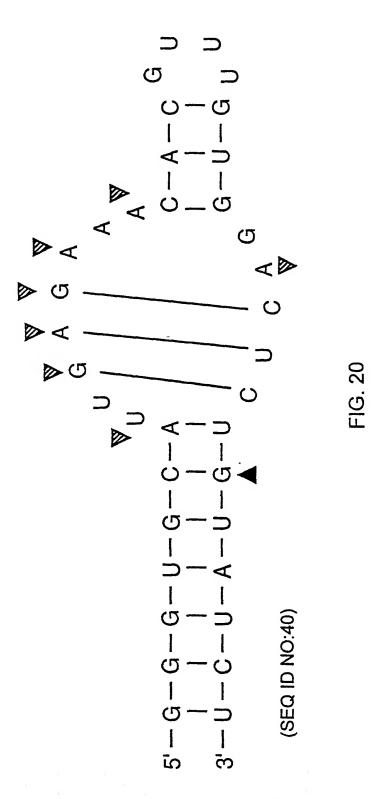
#### Attorney Docket No. NEX 05/DC-CON2 Sheet 21/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US



#### Attorney Docket No. NEX 05/DC-CON2 Sheet 22/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

▼ = reduced modification of base

= enhanced modification of base



#### Attorney Docket No. NEX 05/DC-CON2 Sheet 23/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al Express Mail Label No. EV 019561696 US

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н	<u>UGGUGCG</u> UUGAGAAA <u>CAGG</u> U-U <u>UUU</u> GGACUC <u>CGUACCA</u>	45
7	<u>GUAUGCA</u> UUGAGAGU <u>CACA</u> C-U <u>UGUG</u> GACUC <u>UGCAU</u> C <u>C</u>	46
က	<u>agaugga</u> uugagaaa <u>ca</u> c <b>ua-</b> uua <u>ug</u> gacuc <u>uccauc</u> g	47
4	A <u>GCUUCG</u> UCGAGAUA <u>CA</u> CGU-UGA <u>UG</u> GACUC <u>CGAAGCA</u>	48
2	<b>UC<u>GUACG</u>UUGAGAAA<u>CA</u>AGU-UUA<u>UG</u>GACUC<u>CGUAC</u>CU</b>	49
9	<b>UCG<u>AUCG</u>UUGAGAUA<u>CAC</u>GC-UA<u>GUG</u>GACUC<u>CGA</u>AACU</b>	50
83	<b>UACUGCAUCGAGAUA<u>CACG</u>U-UUGUGGACUC<u>UGCA</u>CA</b> U	51
6	<u>ugauacg</u> uugagaaa <u>ca</u> caa-ugc <u>ug</u> gacuc <u>cgcauc</u> c	52
10	GCCUGCAUUGAGAAACAGGA-UUCUGGACUCUGCCACU	53
12	C <u>GCUAUG</u> UUGAGAAA <u>CA</u> CUU-UGC <u>UG</u> GACUC <u>CGUAGC</u> U	54
13	UAC <u>UGCA</u> UCGAGAAA <u>CA</u> CGU-AAGUG-ACUC <u>UGCA</u> UCC	55
15	CGGUACGUCGAGAUACACGA-AGAUGGACUCCGUAUCG	56

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17	AACUCCAUCGAGAAACACGA-UAGUGGACUCUGGAGCU		57
18	<u>GGAGACG</u> UCGAGAAA <u>CACG</u> U-U <u>UGUG</u> GACUC <u>CGUCUCU</u>		58
21	AGCUACAUCGAGAAACAAGA-UUUUGGACUCUGUAGCG		59
23	AAGUGCAUUGAGAUA <u>CAA</u> AU-GA <u>UUG</u> GACUC <u>UGCAC</u> ac		09
24	<u>vgcuacg</u> uugagava <u>ca</u> cgu-uga <u>ug</u> cacuc <u>cguagc</u> u		61
25	AGCUACGUUGAGAUACACGUUGG-CUCCGUAGCC		62
27	<u>GAGUGGC</u> UCGAGAAA <u>CAG</u> GU-UG <u>CUG</u> GACUC <u>GCCACAU</u>		63
28	<u>ucgugcg</u> ucgagcaa <u>ca</u> cgu-uga <u>ug</u> gacuc <u>cgcacag</u>		64
29	<u>GGCACCG</u> UUGAGAAA <u>CAC</u> AU-GC <u>GUG</u> GACUC <u>CGUGCC</u> C	•	65
30	<b>UCC<u>UGCA</u>UUGAGAAA<u>CAG</u>UG-AU<u>CUG</u>GACUC<u>UGCA</u>ACU</b>		99
31	c <u>ugugga</u> uugagcaa <u>cac</u> gu-g <u>agug</u> gacuc <u>uccaca</u> u		67
32	c <u>ccucce</u> uugagaca <u>cacac-cgaug</u> gacuc <u>cgcaug</u> u		68
33	AGCUGCAUCGAGAUACACGA-UUGUGGACUCUGCAGCC		69
35	<u>AGAUUCGUUGAGAAACACAU - GGGUGGACUCUCCCGCUA</u>		70
36	<u>AGAUGGA</u> UUGAGAAA <u>CACG</u> U-U <u>CGUG</u> GACUC <u>UCCAACU</u>		71
37	GAC <u>UGC</u> AUCGAGAAA <u>CAC</u> UG-AU <u>GUG</u> GCCUCC <u>GCA</u> CGG		72

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(j)	<u>AGAUACG</u> UUGAGAGA <u>CACG</u> C-A <u>CGUG</u> GACUC <u>CGUAUCU</u>	92
7	<u>AGGA</u> UCACAGAGAAA <u>CACC</u> GUG <u>GGUG</u> G-CUC <u>CCU</u> CUAU	77
5 51	<u>GUGCGCA</u> UCGAGAAA <u>CA</u> CGU-U <b>GAUG</b> GACUC <u>UGC</u> AU <u>GCAC</u>	78
12 (	G <u>agagga</u> ucgagaaa <u>cacg</u> u-a <u>ugug</u> gacuc <u>ucc</u> a <u>ucu</u>	79
81	G <u>GAUGGA</u> UUGAGACA <u>CACGU-AUGUG</u> GACUC <u>UCCAUC</u> A	80
61	<u>ucgggca</u> uugagaua <u>ca</u> cgu-aga <u>ug</u> gacuc <u>ugucu</u> c <u>a</u>	81
20	<u>ugga</u> ccguagaaaa <u>ca</u> cguuuga <u>ug</u> g-cuc <u>ccucu</u> gu	82

## FIG. 21-C

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#### Attorney Docket No. NEX 05/DC-CON2 Sheet 27/32 Title: METHODS OF PRODUCING NUCLEIC ACID LIGANDS Inventor: Gold et al. Express Mail Label No. EV 019561696 US

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FIG. 22C-1

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FIG. 22C-2

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G19/U22	6	2	1	3	1	6	0	-	0	14
C18/G23	19	0	2	3	19	-	0	0	9	4
A17/U24	38	38	0	0	0	0	0	0	0	0
C16/G25 A17/U24 C18/G23 G19/U22	38	0	0	0	38	0	0	0	0	0
	PI.									
A7/U31	16	16	0	18	1	1	0	2	0	0
C6/G32	28	0	0	9	28	0	1	0	0	3
G5/U33	2	10	2	18	-	2	0	-	0	2
U4/A34 G5/U33 C6/G32 A7/U31	28	0	28	2	0	0	0	2	0	8
2	8	9	0	7	8	8	0	0	2	7
G2/C36	16	0	_	16	2	-	-	3	F	13
G1/U37 G2/C36 G3/U3	2	9	2	5	-	1	4	3	-	16
6a	WT	ΑC	Ą	8	8	ਭ	කු	Ş	ζĄ	other

FIG.23A

G1/U37   G2/C36   G	380/85	U4/A34 G5/U33	G5/U33	C6/G32	A7/U31	C16/G25	A17/U24	C18/G23	G19/U22
	.21	.74	90'	.74	.42	1.00	1.00	.50	.24
	.16	00.		00.	.42	00.	1.00	00.	
	00	.74	05	00.		00.		.05	
•	18	30.	74.	.16		00.	00.	80.	.08
•	.21	00.	.03	.74	.03	1.00	00.	.50	
•	.21	00.	30.	00.	.03	00.	00.	.03	
•	00.	00.	00'	.03		00.		00.	00.
	00.	.05	.03	00.	.05	00.	00.	00.	.03
	.05	00.	00'	00.	00.	00.	00'	.24	00.
	.18	.21	.05	80.	00.	00.	00.	11.	78.

FTG. 23B

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G19/U22	C16/G25 A17/U24 C18/G23 G19/U22	A17/U24	C16/G25	A7/U31	C6/G32	U4/A34  G5/U33  C6/G32  A7/U31		G3/U35	G1/U37 G2/C36 G3/U	G1/U37	6a

FIG.23C

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